



Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	09/751747
				Filing Date	12/29/00
				First Named Inventor	Lawrence H. Hudepohl
				Group Art Unit	2181
				Examiner Name	William M. Treat
				Attorney Docket Number	MIPS.0105-00-US
Sheet	1	of	6		

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
WMT		6754804	06-22-2004	Hudepohl et al.	
h		20050038975	02-17-2005	Hudepohl et al.	
		5473754	12-05-1995	Folwell et al.	
		5491793	02-13-1996	Somasundaram et al.	
		5598421	01-28-1997	Tran et al.	
		5642478	06-24-1997	Chen et al.	
		5642479	06-24-1997	David Walter Flynn	
		5724505	03-03-1998	Argade et al.	
		5752013	05-12-1998	Christensen et al.	
		5764885	06-09-1998	Sites et al.	
		5790561	08-04-1998	Borden et al.	
		5802272	09-01-1998	Sites et al.	
		5944841	08-31-1999	David S. Christie	
		5970246	10-19-1999	Moughani et al.	
		5978937	11-02-1999	Miyamori et al.	
		5996092	11-30-1999	Augsburg et al.	
		6061473	05-09-2000	Chen et al.	
		6094729	07-25-2000	Daniel P. Mann	
		6145123	11-07-2000	Torrey et al.	
WMT		5404470	04-04-1995	Jiro Miyake	

Examiner Signature	W. TREAT	Date Considered	10/21/06
-----------------------	----------	--------------------	----------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

If you need assistance in completing this form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	09/751747
				Filing Date	12/29/00
				First Named Inventor	Lawrence H. Hudepohl
				Group Art Unit	2181
				Examiner Name	William M. Treat
				Attorney Docket Number	MIPS.0105-00-US
Sheet	2	of	6		

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
WMT		5878208	03-02-1999	Levine et al.	
		5625785	04-29-1997	Miura et al.	
		5150470	09-22-1992	Hicks et al.	
		6487715	11-26-2002	Chamdani et al.	
		20020147965	10-10-2002	Swaine et al.	
		6516408	02-04-2003	Abiko et al.	
		5956479	09-21-1999	McInemey et al.	
		6622225	09-16-2003	Kessler et al.	
		5751996	05-12-1998	Glew et al.	
		3473154	10-14-1969	Couleur et al.	
		3585599	06-15-1971	Hitt et al.	
		3681534	08-01-1972	Burian et al.	
		3702989	11-14-1972	Provenzano, Jr. et al.	
		3704363	11-28-1972	Salmassy et al.	
		3707725	12-26-1972	John L. Dellheim	
		3771131	11-06-1973	Andrew T. Ling	
		3794831	02-26-1974	Frankeny et al.	
		3805038	04-16-1974	Buedel et al.	
		3906454	09-16-1975	Robert Lanham Martin	
WMT		4205370	05-27-1980	Allen C. Hirtle	

Examiner Signature <span style="float: right;">W. TREAT</span>	Date Considered	10/21/06
--	-----------------	----------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

If you need assistance in completing this form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	09/751747
				Filing Date	12/29/00
				First Named Inventor	Lawrence H. Hudepohl
				Group Art Unit	2181
				Examiner Name	William M. Treat
				Attorney Docket Number	MIPS.0105-00-US
Sheet	3	of	6		

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2/3</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
WMT		4293925	10-06-1981	Haag et al.	
		4423508	12-27-1983	Shiozaki et al.	
		4462077	07-24-1984	Harold L. York	
		4503495	03-05-1985	Daniel A. Boudreau	
		4511960	04-16-1985	Daniel A. Boudreau	
		4539682	09-03-1985	Herman et al.	
		4553223	11-12-1985	Bouhelier et al.	
		4554661	11-19-1985	Richard J. Bannister	
		4590550	05-20-1986	Eilert et al.	
		4742466	05-03-1988	Ochiai et al.	
		4783762	11-08-1988	Inoue et al.	
		4835675	05-30-1989	Joji Kawai	
		5058114	10-15-1991	Kuboki et al.	
		5274811	12-28-1993	Borg et al.	
		5289587	02-22-1994	Bruce B. Razban	
		5434622	07-18-1995	Jong-Tae Lim	
		5471594	11-28-1995	Jonathan J. Stone	
		5533193	07-02-1996	Gary W. Roscoe	
		5581691	12-03-1996	Hsu et al.	
WMT		5621886	04-15-1997	Alpert et al.	

Examiner Signature	W. TREAT	Date Considered	10/21/06
-----------------------	----------	--------------------	----------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

If you need assistance in completing this form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	09/751747
				Filing Date	12/29/00
				First Named Inventor	Lawrence H. Hudepohl
				Group Art Unit	2181
				Examiner Name	William M. Treat
				Attorney Docket Number	MIPS.0105-00-US
Sheet	4	of	6		

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2(f known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
WMT		5689636	11-18-1997	Kleber et al.	
		5689694	11-18-1997	Masami Funyu	
		5715435	02-03-1998	Satoshi Ikei	
		5748904	05-05-1998	Huang et al.	
		5751942	05-12-1998	Christensen et al.	
		5812868	09-22-1998	Moyer et al	
		5832515	11-03-1998	Ledain et al.	
		5848264	12-08-1998	Baird et al.	
		5946486	08-31-1999	Raymond Paul Pekowski	
		6009270	12-28-1999	Daniel Mann	
		6012085	01-04-2000	Yohe et al.	
		6106573	08-22-2000	Mahalingaiah et al.	
		6256777	07-03-2001	William B. Ackerman	
		6282701	08-28-2001	Wygodny et al.	
		6314530	11-06-2001	Daniel Mann	
		6338159	01-08-2002	Alexander, III et al.	
		6353924	03-05-2002	Ayers et al.	
		6457144	09-24-2002	Raymond J. Eberhard	
		6467083	10-15-2002	Fumiaki Yamashita	
WMT		6530076	03-04-2003	Ryan et al.	

Examiner Signature	W. TREAT	Date Considered	10/21/06
--------------------	----------	-----------------	----------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST .3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

If you need assistance in completing this form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Substitute for form 1449A/PTO  <h2 style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center;">(use as many sheets as necessary)</p>			<b>Complete if Known</b>		
			Application Number	09/751747	
			Filing Date	12/29/00	
			First Named Inventor	Lawrence H. Hudepohl	
			Group Art Unit	2181	
			Examiner Name	William M. Treat	
			Attorney Docket Number	MIPS.0105-00-US	
Sheet	5	of	6		

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2 (if known)</sup>			
WMT		6615370	09-02-2003	Edwards et al.	
		6615371	09-02-2003	McCullough et al.	
		6658649	12-02-2003	Bates et al.	
		6684348	01-27-2004	Edwards et al.	
		20010054175	12-20-2001	Katsumi Watanabe	
		20020046393	04-18-2002	Leino et al.	
		5084814	01-28-1992	Vaglica et al.	
		6032268	02-29-2000	Swoboda et al.	
WMT		6687865	02-23-2004	Dervisoglu et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5 (if known)</sup>				
WMT	BA	GB2329048	03-10-1999	Segars et al.		
WMT	BB	GB2329049	03-10-1999	Segars et al.		

Examiner Signature <span style="margin-left: 50px;">W. TREAT</span>	Date Considered	10/21/06
---	-----------------	----------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

If you need assistance in completing this form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	09/751747
				Filing Date	12/29/00
				First Named Inventor	Lawrence H. Hudepohl
				Group Art Unit	2181
				Examiner Name	William M. Treat
				Attorney Docket Number	MIPS.0105-00-US
Sheet	6	of	6		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
WMT	AA	FALOUTSOS, CHRISTOS et al., "Description and Performance Analysis of Signature File Methods for Office Filing." ACM Transactions on Office Information Systems. July 1987. pp237-257	
	AB	Embedded Trace Macrocell (Rev 1) Specification, (2000)	
	AC	EGGERS et al. "The Effect of Sharing on the Cache and Bus Performance of Parallel Programs." ACM, pp.257-270, 1989	
	AD	PEIR et al. "Improving Cache Performance with Balanced Tag and Data Paths." ACM ASPLOS VII, pp268-278. 1996	
	AE	PANDA et al. "Data and Memory Optimization Techniques for Embedded Systems." ACM TDAES, vol 6, no. 2, pp.149-206. 4/2001	
	AF	Embedded Trace Macrocell Specification, Rev. 0/0a, ARM IHI 0014C, ARM Ltd. (1999)	
	AG	EGGERS, SUSAN J. et al. "Techniques for Efficient Inline Tracing on a Shared-Memory Multiprocessor." University of Washington. 1990 ACM, pp. 37-47.	
	AH	UHLIG, RICHARD A. et al. "Trace-Driven Memory Simulation: A Survey." Intel Microcomputer Research Lab; University of Michigan, ACM Computing Surveys. Vol. 29, No. 2, June 1997. pp. 128-170.	
	AI	ROTENBERG, ERIC et al. "Trace Processors." University of Wisconsin. 1997 IEEE Service Center. 12 pp.	
	AJ	ELNOZAHY, E.N. "Address Trace Compression Through Loop Detection and Reduction." 1999 ACM 1-58113-083, pp. 214, 215.	
	AK	JONES, DARREN. MIPS64™ 5Kc™ Processor Cores User's Manual. Rev. 1.0, July 4, 1999. pp. 6-1 to 6-26.	
	AL	CHOW, F. et al. "Engineering a RISC Compiler System." IEEE COMP-CON. March 1986. pp. 132-137.	
	AM	SMITH, M.D. "Tracing with Pixie." Technical Report CSL-TR-91-497. Stanford University, Computer Systems Laboratory, November 1991. pp.1-29	
	AN	ATOM Reference Manual. Digital Equipment Corporation. Massachusetts, December 1993. pp.1-32	
	AO	SRIVASTAVA, A. et al. "ATOM: A System for Building Customized Program Analysis Tools." WRL, Research Report 94/2, Digital Equipment Corporation. March 1994, pp.1-23	
	AP	ATOM User Manual, Digital Equipment Corporation, March 1994. pp. 1-28	
	AQ	CMELIK, B. et al. "Shade: A Fast Instruction-Set Simulator for Execution Profiling." Proceedings of the 1994 ACM SIGMETRICS Conference. SIGMETRICS, California. May 1994. pp. 128-137.	
	AR	MIPS64 5Kc™ Processor Core Software User's Manual. Revision 2.2 August 11, 2000. Document Number: MD00055.	
	AS	MIPS64 5Kc™ Processor Core Datasheet. Revision 1.7.5. August 11, 2000. Document Number MD00014	
	AT	MIPS64 5Kc™ Processor Core Datasheet. Revision 2.0. August 28, 2000. Document Number MD00014	
	AU	MIPS64™ 5Kf™ Processor Core Datasheet. Revision 00.11. March 30, 2001. Document Number: MD00109.	
	AV	MIPS64 5K™ Processor Core Family Integrator's Guide. Revision 02.00 January 15, 2001. Document Number: MD00106.	
✓	AW	MIPS64 5Kc™ Processor Core Integrator's Guide. Revision 1.2 August 11, 2000.. Document Number: MD00056.	
WMT	AX	MIPS Technologies. "Core Coprocessor Interface Specification." Revision 1.11 March 30, 2001 Document Number: MD00068	

Examiner Signature	W. TREAT	Date Considered	10/21/06
--------------------	----------	-----------------	----------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

If you need assistance in completing this form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.